

Configuration Changes in the Upstream BAF Tunnel

Present: D. Beavis, D. Phillips, R. Prigl, and A. Stevens

A Sub-committee reviewed configuration changes that are requested for the upstream BAF tunnel. Booster operations are expected to be down for 2-3 weeks providing a window of opportunity to do facilities work in the BAF tunnel section, which is presently closed by a barrier.

The shielding configuration will be changed. The 12-foot concrete plug will be removed. The concrete barriers as proposed for the BAF project will be installed. The pipe to the Booster enclosure will have iron shielding placed in it at both ends. Approximately one foot will be placed in the upstream end and 2 feet in the downstream end. The upstream steel plug will have posting to avoid any inadvertent removal. The BAF transport magnets will be placed in the tunnel. The two 8Q24 quadrupoles will be rotated 90 degrees to act as a steel shield. The combination of these shields should be sufficient for the downstream BAF tunnel in combination with the two chipmunks in the BAF tunnel.

The Chipmunks will be moved for construction purposes. The upstream chipmunk will be placed back in its original position. The downstream chipmunk will be placed downstream of the shielding walls. The interlock and alarm levels will remain unchanged until after Booster operations resume.

The barrier will be replaced and additional posting placed on it to warn against its removal.

The area in the BAF tunnel immediately downstream of the barrier will be posted as a Controlled Area-TLD required till surveys can be done to ensure potential chronic dose in the area does not exceed the limits for a controlled area without TLD. Fault studies were not considered necessary.

CC:

RSC BAF file
RSC Minutes file
RSC
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